

FM-CW RADAR APPARATUS

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ABSTRACT OF THE DISCLOSURE

10       An FM-CW radar apparatus capable of detecting a  
stationary object, in particular, an overbridge, located  
above the road ahead in a simple manner uses a traveling  
wave antenna as a transmitting antenna, and includes a  
means for varying, in upward and downward directions the  
projection angle of a combined beam pattern of a  
transmitted wave radiated from the traveling wave  
15       antenna, and an overbridge is detected by varying the  
projection angle of the combined beam pattern in the  
upward direction using the varying means. Further, a  
phase shifter for varying the projection angle of the  
beam pattern in upward/downward directions by controlling  
20       the phase of the radio wave to be transmitted or received  
is provided on either a transmitting antenna or a  
receiving antenna or on a transmitting/receiving antenna,  
and an overbridge is detected by controlling the phase  
shifter and varying the projection angle of the beam  
25       pattern in the upward direction.